Roll No. : ....

Total No. of Questions : 9]   [Total No. of Pages : 3

24321

B.Tech. (ECE) 6th Semester (Supplementary) Examination, July–2021

(F Scheme)

MICROCONTROLLER AND EMBEDDED SYSTEM

Paper–EE-308-F

Time : **Three** Hours]   [*Maximum Marks : 100*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note :– Attempt *five* questions in all, selecting *one* question from each Section. Question No. **1** is compulsory. All questions carry equal marks.

1. (a) Explain briefly different types of Microcontroller.

(b) What do you mean by PIC Microcontroller ?

(c) Define assembly language in Microcontroller.

(d) Why we need Embedded system ?   5×4=20

Section–A   20 each

2. Write short notes on the following :

(a) Clocking and I/P, O/P Pins

(b) Interrupts

3. Explain difference between CISC and RISC microcontroller.

Section–B   20 each

4. Explain piplining and architecture of microcontroller.

5. Explain addressing mode and CPV registers in microcontroller.

Section–C   20 each

6. Explain interfacing of ADC with 8051 Microcontroller.

7. Explain pin diagram and memory organization in 8051 Microcontroller.

Section–D   20 each

8. Explain the various classification of Embedded System.

9. Explain memory devices and I/O devices in Embedded System.